

surfaces defining at least one pair of torroidal fluid working chambers which in operation have cyclically variable volumes, said cylinder assembly having means between said component and said cylinder such that in operation said component rotates and reciprocates within said cylinder [said at least one structural member having working surfaces mounted internally of said cylinder and engaging said component and having the function of transmitting load imposed by the working surfaces, said cylinder assembly having means circumferentially within said housing to enable said assembly to rotate while said component reciprocates within said assembly].

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Claim 60, line 2, before "made" insert --substantially--.

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Claim 61 (Amended) A device for the working of fluids comprising at least one cylinder assembly and a component reciprocable therein, said component having two longitudinal extremities and at least one circumferential projection, said cylinder assembly having at least one internal circumferential depression in which a projection is positioned to reciprocate, said projection and depression forming a pair of torroidal fluid working chambers of cyclically variable capacity, said component having at least one internal passage for movement of fluids to or from said working chambers, said assembly including a multiplicity of elements of ceramic material held in assembled condition by at least one fastener loaded in tension.

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Claim 63, line 2, before "partially" insert --at least--.

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Claim 66 (Amended) The device of claim 61, including a crankshaft and a connecting rod, to which crankshaft an end of an extremity [said extension] is linked, said connecting rod having a small and large end.

Claim 67 (Amended) The device of claim 61, including a device known as a scotch yoke mechanically linked to said component [to which an end of said extension is linked].

Claim 68 (Amended) The device of claim 61, wherein said component is [substantially] at least partly composed of ceramic material.

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Claim 80, line 1, change "fluid" to --fuel--.

Claim 98, line 2, after "defining" insert --manufactured--.

Claim 99, line 2, after "defining" insert --relatively small manufactured--.

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Claim 106 (Amended) A device for the working of fluids comprising a housing, at least one cylinder assembly having a circumferential depression and mounted in said housing and a component [reciprocating] reciprocatable in said assembly [therein], said component having two open cylindrical ends and at least one circumferential projection [reciprocating] reciprocatable in [a] said circumferential depression in said assembly to form at least one pair of torroidal fluid working chambers of cyclically variable capacity, said component having at least one internal volume for passage of fluids to said working chamber, said housing being substantially of insulating material to restrict heat transfer from said assembly [and at least one structural extension, the end of said extension in normal operation transferring loads associated with said working chambers].

Claim 107 (Amended) A device for the working of fluids, said device having a cylinder assembly comprising a cylinder with internal circumferential depressions, a component with external circumferential projections and at least one structural member, said external circumferential projections reciprocating in said internal circumferential depressions and both having working

surfaces defining at least one pair of torroidal fluid working chambers which in operation have cyclically variable volume, said at least one structural member having a circumferentially [working surfaces] mounted means [internally of said cylinder on said component and having the function of] for transmitting load [imposed by the working surfaces] to or from said working chambers.

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Claim 109 (Amended) The device of claim 61, wherein said component comprises [a multiplicity of elements] at least one element [of which is] of integral ceramic material.

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-- 111. The device of claim 55, including means between said chamber and said component so as to cause said component to rotate relative to said cylinder while reciprocating in said chamber. --

-- 112. The device of claim 61, wherein said fastener is of tubular form. --

-- 113. The device of claim 76, wherein said fastener is of tubular form. --

-- 114. The device of claim 61, including at least one electrical circuit within said ceramic material. --

-- 115. The device of claim 68, including at least one electrical circuit within said ceramic material. --

-- 116. The device of claim 54, wherein said housing is at least partly of insulating material for the purpose of restricting heat transfer from said cylinder assembly. --

-- 117. The device of claim 107, including a housing, wherein said housing is of insulating material and at least partly surrounds said cylinder assembly. --

-- 125. The device of claim 55, including at least one fastener, wherein said chamber assembly includes a multiplicity of components of ceramic material held in assembled condition by said at least one fastener loaded under tension. --

-- 126. The device of claim 106, including at least one fastener, wherein said cylinder assembly includes a multiplicity of components of ceramic material held in assembled condition by said at least one fastener loaded under tension. --

-- 127. The device of claim 107, including at least one fastener, wherein said cylinder assembly includes a multiplicity of components of ceramic material held in assembled condition by said at least one fastener loaded under tension. --

-- 128. The device of claim 118, including at least one fastener, wherein said cylinder assembly includes a multiplicity of components of ceramic material held in assembled condition by said at least one fastener loaded under tension. --

-- 129. The device of claim 124, wherein said fastener is of tubular form. --

-- 130. The device of claim 125, wherein said fastener is of tubular form. --

-- 131. The device of claim 126, wherein said fastener is of tubular form. --

-- 132. The device of claim 127, wherein said fastener is of tubular form. --

-- 133. The device of claim 128, wherein said fastener is of tubular form. --

-- 134. The device of claim 54, including at least one fastener of tubular form, said reciprocable component comprising a multiplicity of elements, said elements being held in assembled condition by said fastener loaded in tension. --

-- 135. The device of claim 55, including at least one fastener of tubular form, said reciprocatable component comprising a multiplicity of elements, said elements being held in assembled condition by said fastener loaded in tension. --

-- 136. The device of claim 106, including at least one fastener of tubular form, said reciprocatable component comprising a multiplicity of elements, said elements being held in assembled condition by said fastener loaded in tension. --

-- 137. The device of claim 107, including at least one fastener of tubular form, said reciprocatable component comprising a multiplicity of elements, said elements being held in assembled condition by said fastener loaded in tension. --

-- 138. The device of claim 118, including at least one fastener of tubular form, said reciprocatable component comprising a multiplicity of elements, said elements being held in assembled condition by said fastener loaded in tension. --

-- 139. The device of claim 54, wherein said component is at least partly composed of ceramic material. --

-- 140. The device of claim 55, wherein said component is at least partly composed of ceramic material. --

-- 141. The device of claim 106, wherein said component is at least partly composed of ceramic material. --

-- 142. The device of claim 107, wherein said component is at least partly composed of ceramic material. --

-- 143. The device of claim 118, wherein said component is at least partly composed of ceramic material. --

-- 144. The device of claim 124, including at least one electrical circuit within said ceramic material. --

-- 145. The device of claim 125, including at least one electrical circuit within said ceramic material. --

-- 146. The device of claim 126, including at least one electrical circuit within said ceramic material. --

-- 147. The device of claim 127, including at least one electrical circuit within said ceramic material. --

-- 148. The device of claim 128, including at least one electrical circuit within said ceramic material. --

-- 149. The device of claim 54, wherein said assembly comprises at least one pair of substantially identical components arranged in mirror image relative to one another. --

-- 150. The device of claim 55, wherein said assembly comprises at least one pair of substantially identical components arranged in mirror image relative to one another. --

-- 151. The device of claim 106, wherein said assembly comprises at least one pair of substantially identical components arranged in mirror image relative to one another. --

-- 152. The device of claim 107, wherein said assembly comprises at least one pair of substantially identical components arranged in mirror image relative to one another. --

-- 153. The device of claim 118, wherein said assembly comprises at least one pair of substantially identical components arranged in mirror image relative to one another. --

-- 154. The device of claim 54, including at least one small manufactured depression in said cylinder assembly surface to said working chambers and at least one small manufactured depression at a corresponding position in said component surface, said depressions wholly fillable by fluids worked by said device.--

-- 155. The device of claim 55, including at least one small manufactured depression in said chamber assembly surface to said working chambers and at least one small manufactured depression at a corresponding position in said component surface, said depressions wholly fillable by fluids worked by said device.--

-- 156. The device of claim 106, including at least one small manufactured depression in said cylinder assembly surface to said working chambers and at least one small manufactured depression at a corresponding position in said component surface, said depressions wholly fillable by fluids worked by said device.--

-- 157. The device of claim 107, including at least one small manufactured depression in said cylinder assembly surface to said working chambers and at least one small manufactured depression at a corresponding position in said component surface, said depressions wholly fillable by fluids worked by said device.--

-- 158. The device of claim 118, including at least one small manufactured depression in said cylinder assembly surface to said working chambers and at least one small manufactured depression at a corresponding position in said component surface, said depressions wholly fillable by fluids worked by said device.--

-- 159. The device of claim 54, wherein said device is part of an internal combustion engine and said working chambers are combustion chambers. --

-- 160. The device of claim 55, wherein said device is part of an internal combustion engine and said working chambers are combustion chambers. --

-- 177. The device of claim 174, wherein said guide is disengagable from said track. --

-- 178. The device of claim 106, including means between said assembly and said component so as to cause said component to rotate relative to said assembly while reciprocating in said assembly. --

-- 179. The device of claim 107, including means between said assembly and said component so as to cause said component to rotate relative to said assembly while reciprocating in said assembly. --

-- 180. The device of claim 118, including means between said assembly and said component so as to cause said component to rotate relative to said assembly while reciprocating in said assembly. --

-- 181. The device of claim 54, including a rotatable shaft and a load transfer mechanism between said shaft and said rotatable and reciprocable component. --

-- 182. The device of claim 55, including a rotatable shaft and a load transfer mechanism between said shaft and said rotatable and reciprocable component. --

-- 183. The device of claim 179, including a rotatable shaft and a load transfer mechanism between said shaft and said rotatable and reciprocable component. --

-- 184. A device for the working of fluids comprising a device known as a scotch yoke having at least one elongate slot, a cylinder assembly and a component reciprocable within said assembly, said component having at least one longitudinal extremity and at least one circumferential projection, said cylinder assembly having at least one circumferential depression in which said projection is positioned to reciprocate, said projection and depression forming a pair of torroidal fluid